

Title (en)

POWER ELECTRONICS DEVICE AND POWER SEMICONDUCTOR MODULE USING THE SAME

Title (de)

LEISTUNGSELEKTRONISCHE EINRICHTUNG UND LEISTUNGSHALBLEITERMODUL DAMIT

Title (fr)

DISPOSITIF ÉLECTRONIQUE DE PUISSANCE ET MODULE SEMI-CONDUCTEUR DE PUISSANCE CORRESPONDANT

Publication

EP 3979313 B1 20221130 (DE)

Application

EP 20199403 A 20200930

Priority

EP 20199403 A 20200930

Abstract (en)

[origin: US2022102227A1] An electronic power unit has a substrate with a perpendicular direction and a flat insulating molded body has a metal layer on a first main face and conductor tracks on a second main face. The substrate is in a non-positive locking or materially-bonded manner on a base plate of the electronic power unit. A first fastening device is on the base plate in a non-positive locking manner on a cooling device or a housing section has a second fastening device provided to arrange the substrate in a non-positive locking manner on a cooling device.

IPC 8 full level

H01L 23/373 (2006.01); **H01L 23/40** (2006.01)

CPC (source: EP US)

H01L 23/053 (2013.01 - US); **H01L 23/13** (2013.01 - US); **H01L 23/3735** (2013.01 - EP); **H01L 23/40** (2013.01 - US); **H01L 23/49811** (2013.01 - US); **H01L 23/3731** (2013.01 - EP); **H01L 23/4006** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3979313 A1 20220406; **EP 3979313 B1 20221130**; CN 114334892 A 20220412; US 11967536 B2 20240423; US 2022102227 A1 20220331

DOCDB simple family (application)

EP 20199403 A 20200930; CN 202111121226 A 20210924; US 202117481986 A 20210922